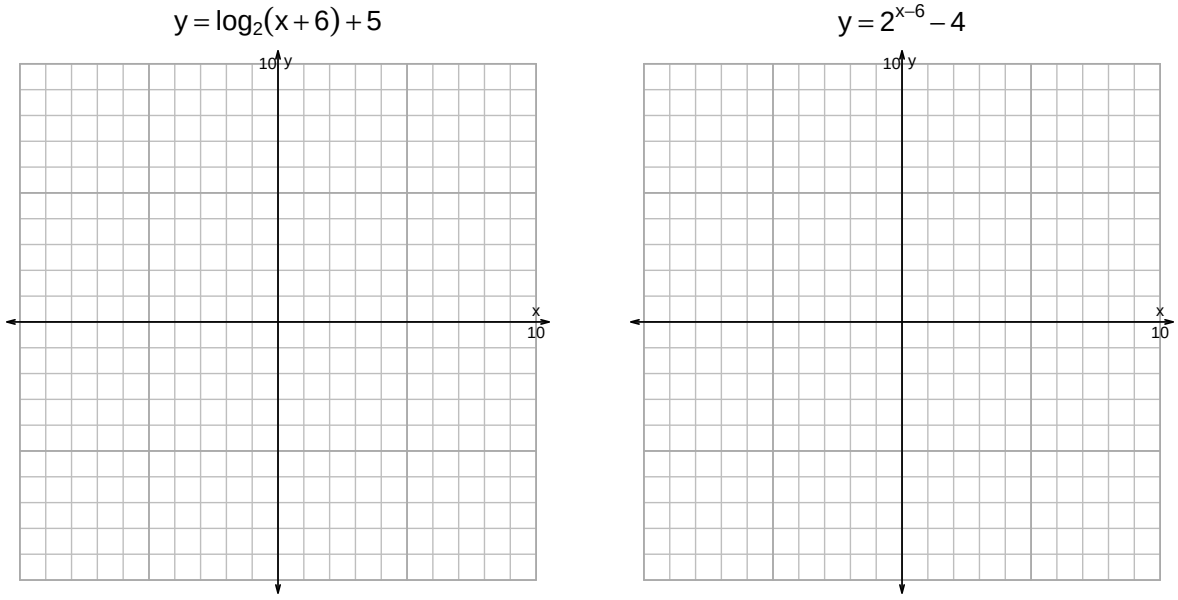
Name: Date:

s18quiz: EXP LOG (Practice v149)

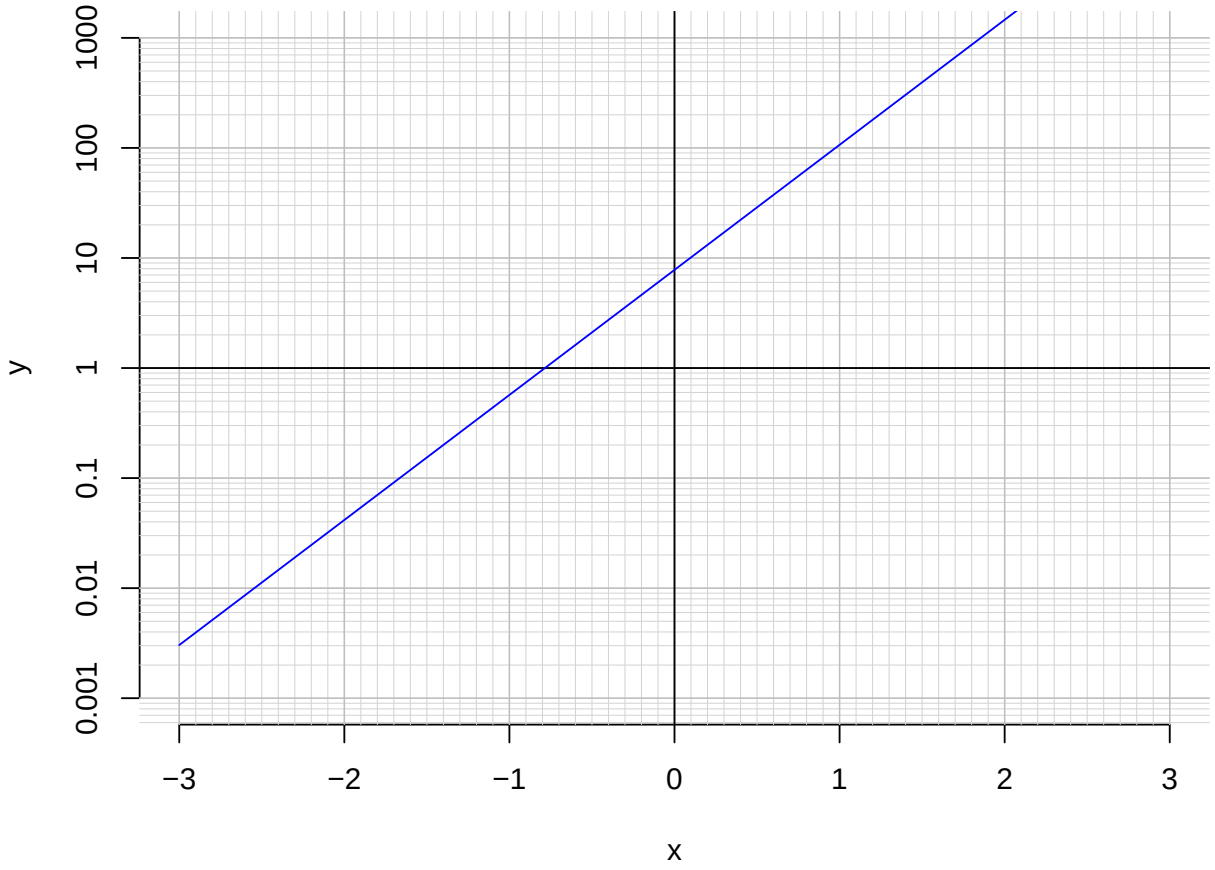
1. Graph $y = \log_2(x+6)+5$ and $y = 2^{x-6}-4$ on the grids below. Also, draw any asymptotes with dotted lines.



2. Write (but do not evaluate) the solution to the equation below by writing a logarithmic expression.

$$-11 = \left(\frac{-3}{4}\right) \cdot 10^{7t/5}$$

3. An exponential function $f(x) = 7.79 \cdot e^{2.62x}$ is graphed below on a semi-log plot.



a. Using the plot above, evaluate $f(-1.4)$.

b. Express $f^{-1}(x)$, the inverse of f.

c. Using the plot above, evaluate $f^{-1}(6)$.